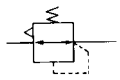
Miniature Regulator
Series ARJ210

- **Lightweight body made of aluminum (60 g)**
- **Two styles of piping connections provided for the IN side: 1/8 (male thread) and M5 (female thread)**

ARJ210-M5

ARJ210-M5BG

JIS Symbol



Standard Specifications

Model		ARJ210-M5
Port size	IN side	1/8 (Male thread), M5 x 0.8 (Female thread)
	OUT side	M5 x 0.8 (Female thread 2 pcs.)
Fluid		Air
Proof pressure		1.2 MPa
Maximum operating pressure		0.8 MPa
Regulating pressure range		0.2 to 0.7 MPa
		0.2 MPa setting 0.05 to 0.2 MPa
Pressure gauge port size		M5 x 0.8 (Female thread)
Ambient and fluid temperature		–5 to 60°C (No freezing)
Weight (kg)		0.06

Accessory (Option)/Part No.

Bracket	134856
Pressure gauge Note)	G27-10-M5-X201

Note) If ordering the pressure gauge, M-5N (nipple) is required. Part number of the pressure gauge with a nipple assembled is G27-10-M5-X215.

How to Order

ARJ 2 10 – M5 BG – 1

Miniature regulator

Body size

Model

1	Relieving type (Standard)

Port size

M5	IN	1/8 (Male thread)
		M5 x 0.8 (Female thread)
	OUT	M5 x 0.8 (Female thread)

Accessory

Symbol	Description
Nil	—
B	With bracket
G	With pressure gauge

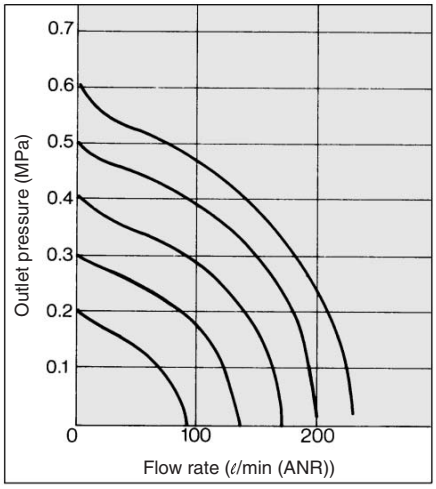
Option

1	0.2 MPa seting
S	With seal

Note 1) Compared with standard specifications, its adjusting spring has only been changed. It is not the product which does not allow the pressure more than 0.2 MPa. Adjusting spring is not replaceable.

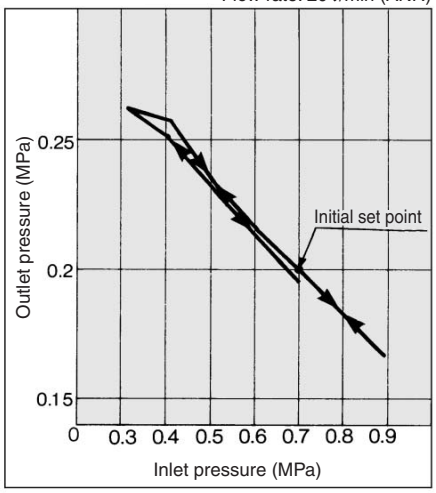
Flow Characteristics

Inlet pressure: 0.7 MPa

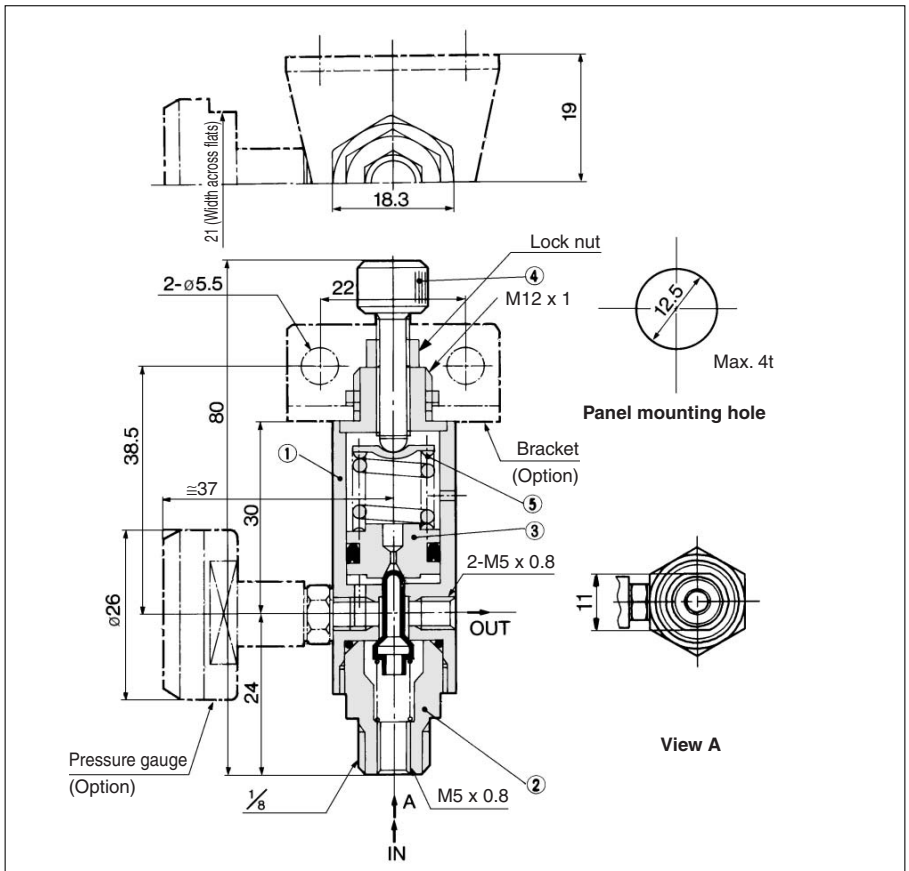


Pressure Characteristics

(Initial setting)
Inlet pressure: 0.7 MPa
Outlet pressure: 0.2 MPa
Flow rate: 20 ℓ/min (ANR)



Construction/Dimensions



No.	Description	Material	Note
①	Body	Aluminum alloy	Black anodized
②	Valve guide	Brass	Electroless nickel plated
③	Piston	Brass	
④	Adjusting screw	Brass	Electroless nickel plated
⑤	Adjusting spring	Steel wire	Zinc chromated

⚠Precautions

Be sure to read before handling. Refer to pages 14-21-3 to 14-21-4 for Safety Instructions and Common Precautions.

Selection

⚠Warning

1. This product cannot be used as a check regulator by installing it between solenoid valve and actuator. Doing so could lead to equipment damage.

2. When connecting a pipe to the IN side, hold the valve guide at its wrench flats (opposite side 11), and when connecting to the OUT side, hold the body at its hexagon portion and tighten it to the recommended torque. (M5: 1.5 to 2 N·m, R 1/8: 7 to 9 N·m.) Excessive torque or holding it other than at the specified area could lead to equipment damage.

Mounting/Adjustment

⚠Warning

1. Set up the regulator while verifying the pressure that is indicated on the inlet and the outlet pressure gauges. Turning the handle excessively could damage the internal parts.

⚠Caution

1. Release the lock to adjust the pressure. After the adjustment, engage the lock.
Failure to observe this procedure could damage the handle or cause the outlet pressure to fluctuate.
<Lock operating method>
Loosen the lock nut to unlock it, and tighten it to lock it.

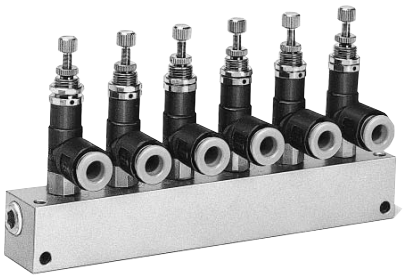
2. This product cannot be used as a check regulator by installing it between solenoid valve and actuator.

3. Port with a pressure gauge or a plug can be used as an OUT port.

Miniature Regulator
Series ARJ1020F

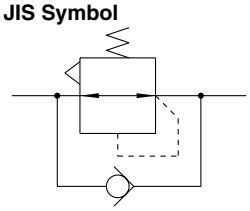
- **Compact and lightweight (16 g)**
- **Low cracking pressure 0.02 MPa Standard model equipped with backflow function**

ARJ1020F-M5-04 **ARJ1020F-M5-06**



ARJM10-6

JIS Symbol



Standard Specifications

Model		ARJ1020F	
Port size	IN side	M5 (Male thread)	
	OUT side (Applicable tubing O.D.)	ø4	ø6
Fluid		Air	
Proof pressure		1.2 MPa	
Maximum operating pressure		0.8 MPa	
Regulating pressure range		0.1 to 0.7 MPa	
		0.2 MPa setting 0.05 to 0.2 MPa	
Ambient and fluid temperature		–5 to 60°C (No freezing)	
Construction		Relieving type	
Weight (kg)		0.015	0.016
Cracking pressure (Valve)		0.02 MPa	
Max. effective area (OUT → IN)		1.8 mm²	
Applicable tubing material Note)		Nylon, Soft nylon, Polyurethane	

Note) Be sure to note the maximum operating pressure for soft nylon and polyurethane. (Refer to Best Pneumatics Vol. 15.)

Accessory (Option)/Part No.

Description	Part no.
Manifold base	ARJM10-4, -6, -10

How to Order

ARJ 10 20 F —M5— 04 -1

Miniature regulator

Body size

10	M5

Piping

20	Elbow type

With One-touch fitting

Port size

M5	M5 x 0.8

Applicable tubing O.D.

04	4 mm
06	6 mm

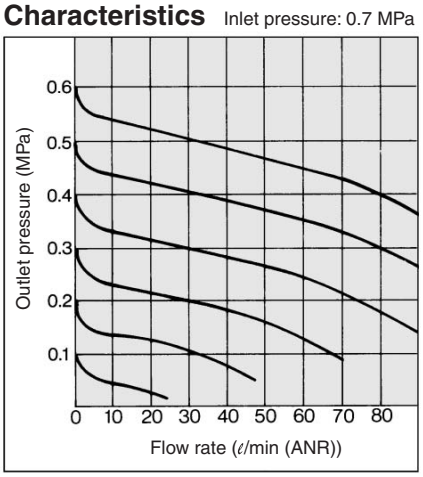
Option

1	0.2 MPa setting

Note 1) Compared with standard specifications, its adjusting spring has only been changed. It is not the product which does not allow the pressure more than 0.2 MPa. Adjusting spring is not replaceable.

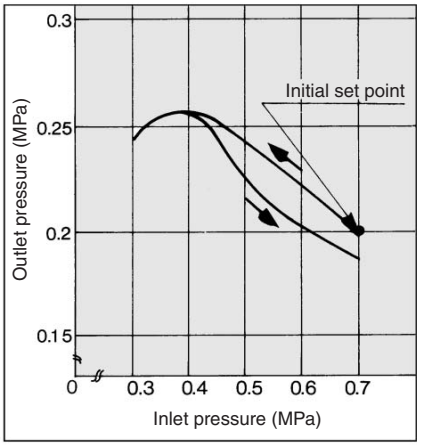
Flow Characteristics

Inlet pressure: 0.7 MPa

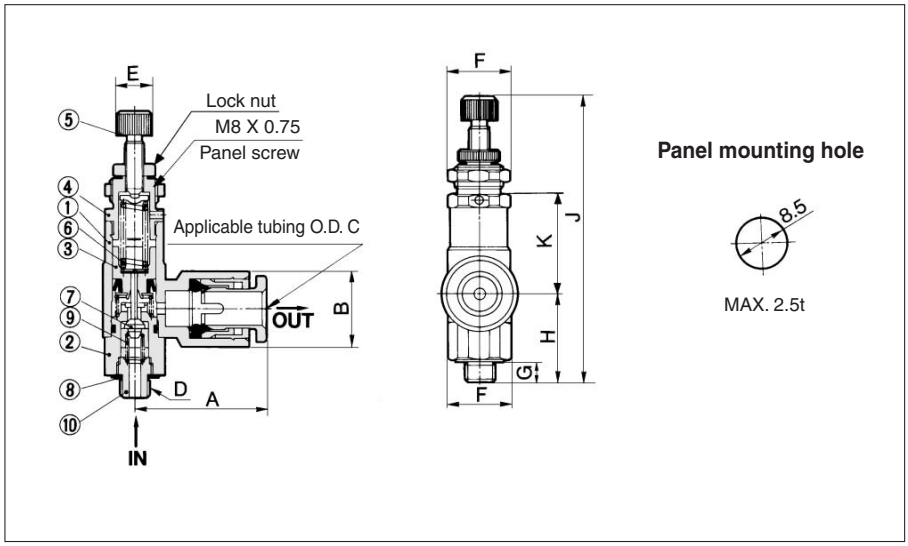


Pressure Characteristics

Conditions (Initial setting)
Inlet pressure: 0.7 MPa
Outlet pressure: 0.2 MPa
Flow rate: 10 ℓ/min (ANR)



Construction/Dimensions



Component Parts

No.	Description	Material	Note
①	Body	PBT	
②	Valve guide	Brass	Electroless nickel plated
③	Piston	Polyacetal	
④	Bonnet	Brass	Electroless nickel plated
⑤	Handle	Brass	Electroless nickel plated
⑥	Adjusting spring	Steel wire	Zinc chromated
⑦	Valve	Brass	Rubber lining
⑩	Nipple	Brass	Electroless nickel plated

Replacement Parts

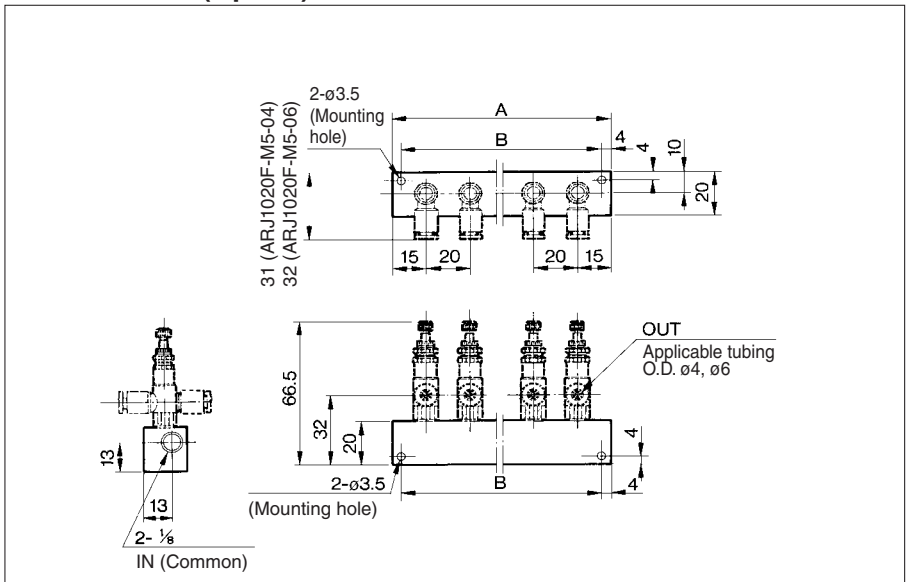
No.	Description	Material	Part no.
⑦	Valve	Brass, HNBR	13434-30
⑧	Gasket	Stainless steel NBR	P233014-04
⑨	Spring	Stainless steel	134313

∗ When replacing valves and springs, remove nipple first. Note that adhesive is applied to the nipple portion.

Dimensions

Model	A	B	C	D	E	F	G	H	J	K
ARJ1020F-M5-04	21	10.4	4	M5 x 0.8	6	10.6 (Width across flats: 10)	3.5	15.5	50	17.2
ARJ1020F-M5-06	22	12.8	6							

Manifold Base (Option)/Dimensions



Manifold base part no.	Stations	A dimension	B dimension
ARJM10-4	4	90	82
ARJM10-6	6	130	122
ARJM10-10	10	210	202

⚠Precautions

Be sure to read before handling. Refer to pages 14-21-3 to 14-21-4 for Safety Instructions and Common Precautions.

Piping

⚠Warning

1. To connect the IN side, hold the valve guide at its wrench flats (opposite side 10) and tighten it at the recommended torque of 1.5 to 2 N·m.
Excessive torque or holding it at an area other than the specified portion may result in a malfunction.

2. While piping to products or operating the handle, ensure that an excess bending moment should not be applied to a product, because it may result in damage.

Mounting/Adjustment

⚠Warning

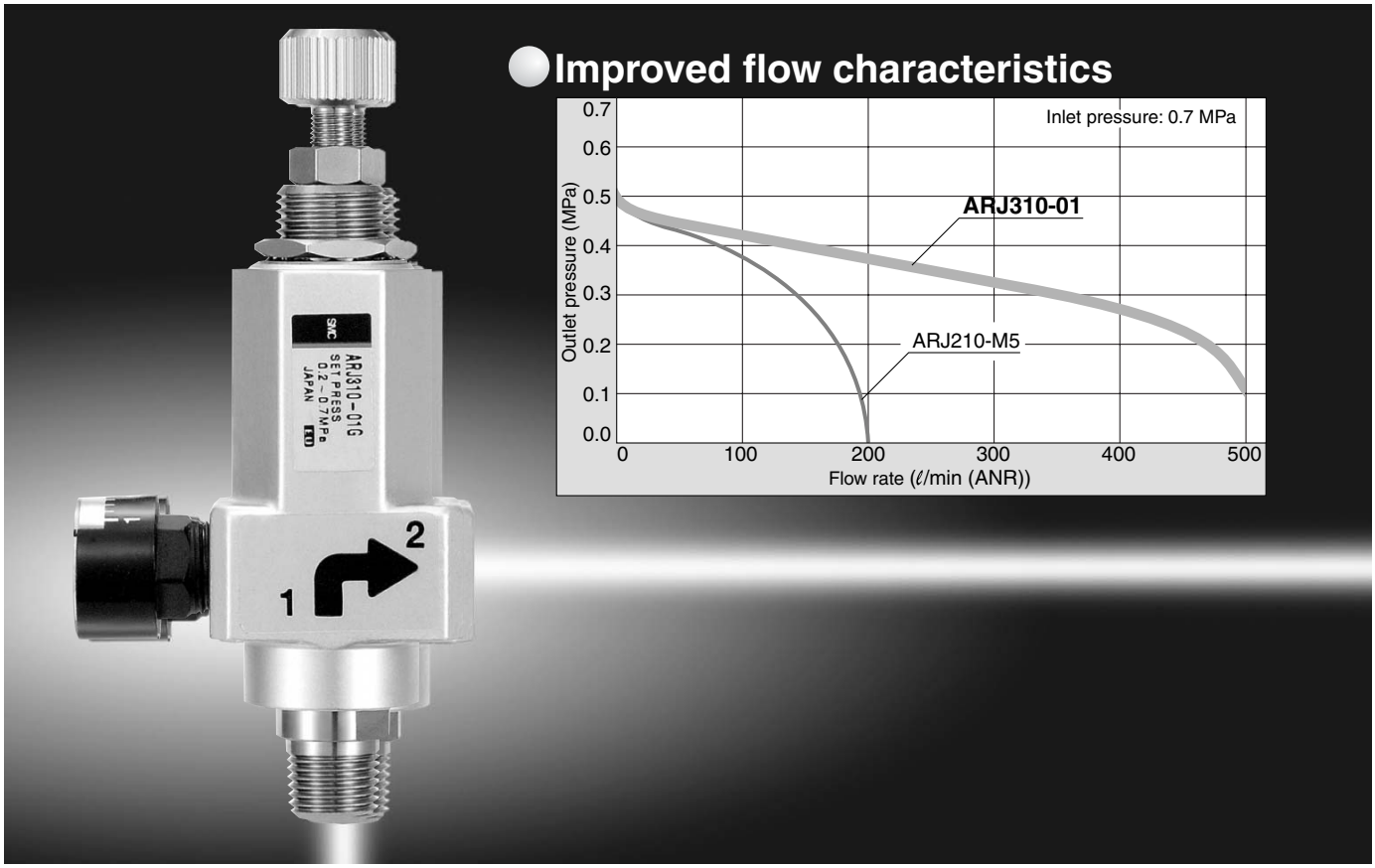
1. Set up the regulator while verifying the pressure that is indicated on the inlet and the outlet pressure gauges. Turning the handle excessively could damage the internal parts.

⚠Caution

1. Release the lock to adjust the pressure. After the adjustment, engage the lock. Failure to observe this procedure could damage the handle or cause the outlet pressure to fluctuate.
<Lock operating method>
Loosen the lock nut to unlock it, and tighten it to lock it.

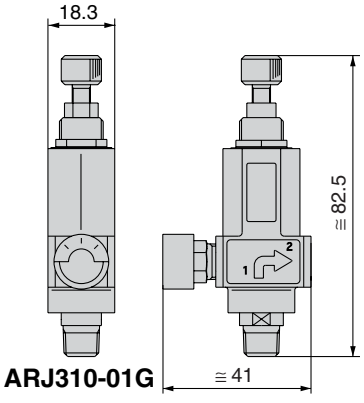
2. This product cannot be used as a check regulator by installing it between solenoid valve and actuator.

Miniature Regulator
Series ARJ310



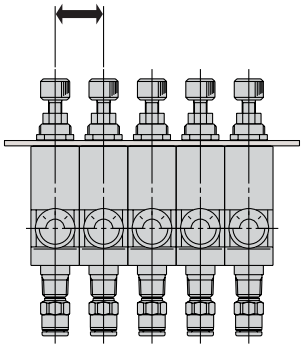
Improved flow characteristics

Compact and lightweight (Main body 65 g)



Allows smaller mounting pitch

18.8 mm



Panel mounting type

Accommodates two types of threads

Inside: Female thread (M5 x 0.8)
Outside: Male thread (1/8)

One-touch fitting feature introduced to series

ø4, ø6 (Metric size)
ø5/32", ø1/4" (Inch size)

⚠ Precautions

Be sure to read before handling. Refer to pages 14-21-3 to 14-21-4 for Safety Instructions and Common Precautions.

Design and Selection

⚠ Warning

1. This product cannot be used as a check regulator by installing it between solenoid valve and actuator. It can result in causing breakdown and malfunction.

2. When piping, tighten the regulator with the recommended proper tightening torque (M5: 1.5 to 2 N·m, R 1/8: 7 to 9 N·m) while holding the wrench flats (width 11) of the valve guide for IN port and holding the hexagonal section of the body for the OUT port. Excessive tightening or holding a part other than those specified can cause damage.

3. While piping to products or operating the handle, ensure that an excess bending moment should not be applied to a product, because it may result in damage.

Mounting

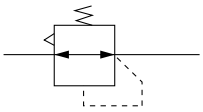
⚠ Caution

To set the correct pressure

1. Make connections after confirming the ↱ mark which indicates the air inlet. Reversed connections can cause malfunction.

Miniature Regulator
Series ARJ310

JIS Symbol



Standard Specifications

Pressure gauge port size	Rc 1/8, NPT 1/8 (Female thread)
Fluid	Air
Proof pressure	1.2 MPa
Maximum operating pressure	0.8 MPa
Regulating pressure range	Standard: 0.2 to 0.7 MPa, Low pressure use (0.2 MPa setting): 0.05 to 0.2 MPa
Ambient and operating temperature range	–5 to 60°C (With no freezing)
Weight	Approx. 65 g

Model

Model	Port size	
	IN *	OUT
ARJ310-01	R 1/8, M5 x 0.8	Rc 1/8
ARJ310-N01	NPT 1/8, M5 x 0.8	NPT 1/8
ARJ310F-01-04	R 1/8, M5 x 0.8	ø4 One-touch fitting
ARJ310F-01-06		ø6 One-touch fitting
ARJ310F-N01-03	NPT 1/8, M5 x 0.8	ø5/32" One-touch fitting
ARJ310F-N01-07		ø1/4" One-touch fitting

* M5 x 0.8 female thread is cut inside the pipe.

Accessory (Option) Part No.

Bracket	134856
Pressure gauge Note)	G15-10-01 (Rc 1/8)/G15-P10-N01 (NPT 1/8)

Note) Pressure gauges (G15) for 0.2 MPa are not available.

How to Order

Port size (IN, OUT)

01	IN	1/8 (Male thread), M5 x 0.8 (Female thread)
	OUT	1/8 (Female thread)

ARJ 3 10 — □ 01 BG □

With One-touch fitting

ARJ 3 10 F — □ 01 BG — 04 □

Body size

Model

10	Relieving type

With One-touch fitting

Thread type

Nil	R, Rc
N	NPT

Port size (IN)

01	1/8 (Male thread), M5 x 0.8 (Female thread)

Accessory

Nil	None
B	Bracket
G	Pressure gauge

Note 2) For products with pressure gauge, pressure gauge is shipped together with product.

Option

Nil	0.7 MPa setting (Standard)
1	0.2 MPa setting (1)
S	With seal

Note 1) Compared with standard specifications, its adjusting spring has been only changed for 0.2 MPa. It is not the product which does not allow the pressure more than 0.2 MPa. Adjusting spring is not replaceable. Besides, in the case with the pressure gauge, the pressure gauge will be the one for 1 MPa.

Applicable tubing O.D. (OUT)

Metric size

04	4 mm	ARJ310-01
06	6 mm	

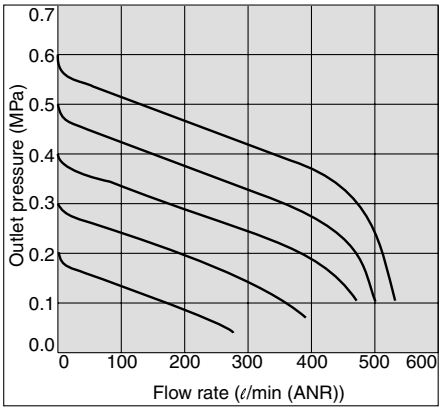
Inch size

03	5/32"	ARJ310F-N01
07	1/4"	

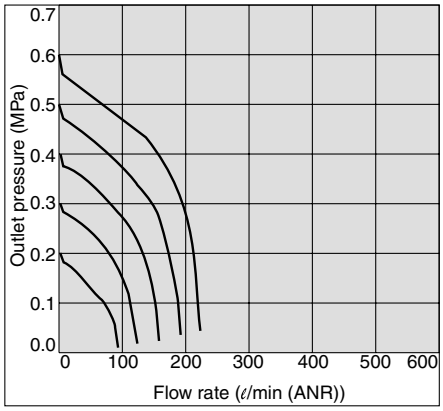
Flow Characteristics

Inlet pressure: 0.7 MPa

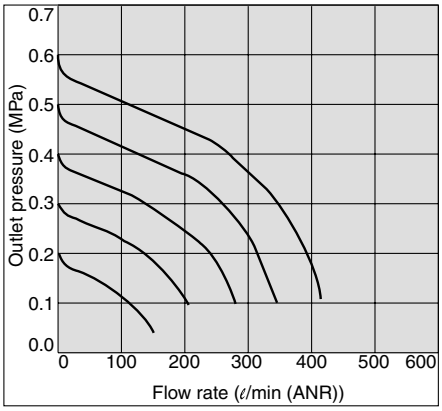
ARJ310-01



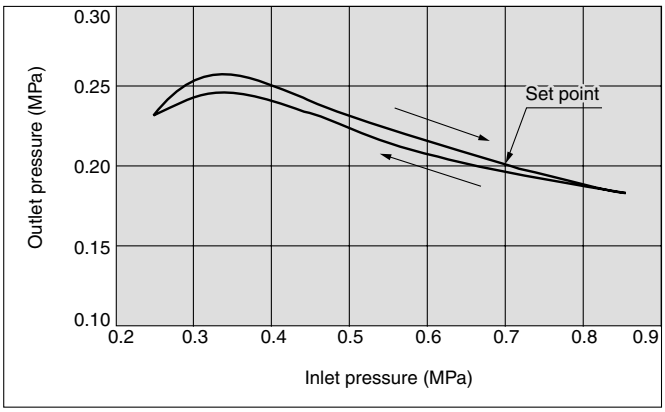
ARJ310F-01-04



ARJ310F-01-06



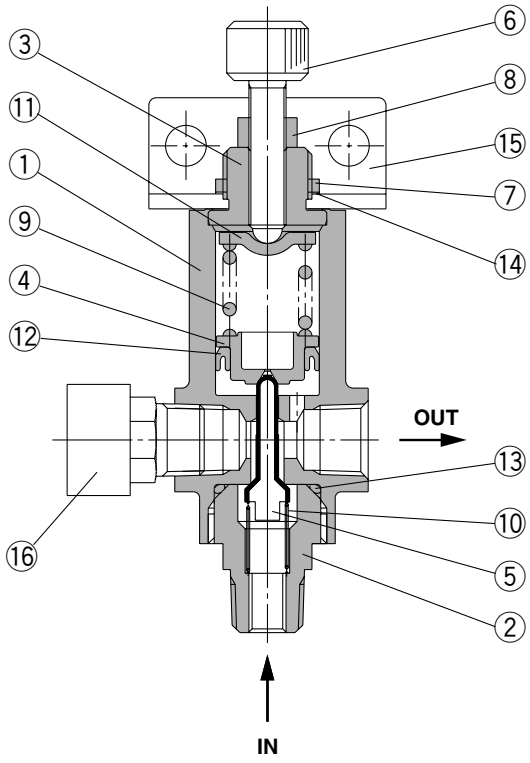
Pressure Characteristics



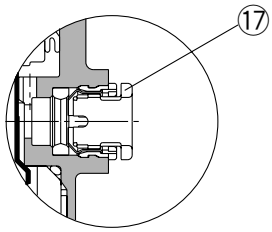
Conditions:
Inlet pressure 0.7 MPa
Outlet pressure 0.2 MPa
Flow rate Q = 20 ℓ/min (ANR)

Construction

ARJ310-01



ARJF310F-01

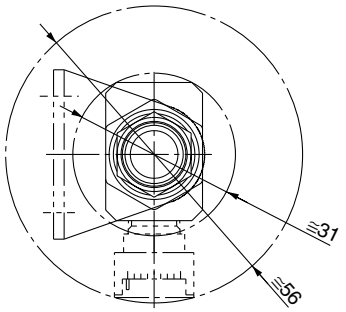


Component Parts

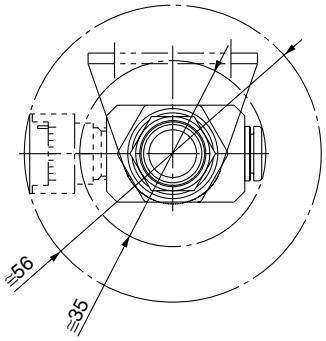
No.	Description	Material	Note	
①	Body	Aluminum alloy		
②	Valve guide	Brass	Electroless nickel plated	
③	Bonnet	Brass	Electroless nickel plated	
④	Piston	POM		
⑤	Valve	Brass	Rubber lining material: HNBR	
⑥	Adjusting screw	Brass	Electroless nickel plated	
⑦	Panel nut	Brass	Electroless nickel plated	
⑧	Hexagon nut	Brass	Electroless nickel plated	
⑨	Adjusting spring	Steel wire	Zinc chromated	
⑩	Valve spring	Stainless steel		
⑪	Spring holder	Steel band	Zinc chromated	
⑫	Mini Y-seal	NBR		
⑬	O-ring	NBR		
⑭	Lock washer	SS	Electroless nickel plated	
⑮	Bracket	Steel band	Black zinc chromated	Accessory
⑯	Pressure gauge	—		Accessory
⑰	Cassette	POM, Stainless steel		

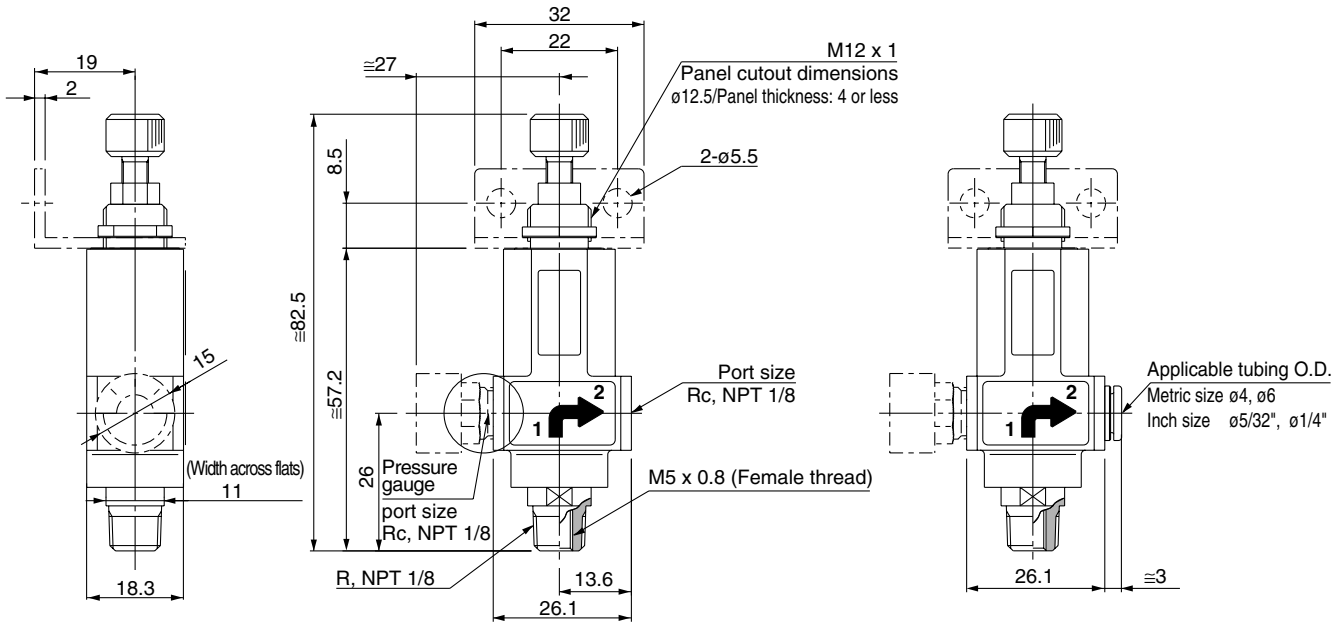
Dimensions

ARJ310-01



ARJ310F-01





Safety Instructions

These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by labels of **"Caution", "Warning"** or **"Danger"**. To ensure safety, be sure to observe ISO 4414 Note 1), JIS B 8370 Note 2) and other safety practices.

⚠ **Caution :** Operator error could result in injury or equipment damage.

⚠ **Warning :** Operator error could result in serious injury or loss of life.

⚠ **Danger :** In extreme conditions, there is a possible result of serious injury or loss of life.

Note 1) ISO 4414: Pneumatic fluid power--General rules relating to systems.
Note 2) JIS B 8370: General Rules for Pneumatic Equipment

⚠ Warning

1. The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.

Since the products specified here are used in various operating conditions, their compatibility for the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements. The expected performance and safety assurance will be the responsibility of the person who has determined the compatibility of the system. This person should continuously review the suitability of all items specified, referring to the latest catalog information with a view to giving due consideration to any possibility of equipment failure when configuring a system.

2. Only trained personnel should operate pneumatically operated machinery and equipment.

Compressed air can be dangerous if an operator is unfamiliar with it. Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

3. Do not service machinery/equipment or attempt to remove components until safety is confirmed.

1. Inspection and maintenance of machinery/equipment should only be performed once measures to prevent falling or runaway of the driver objects have been confirmed.
2. When equipment is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for this equipment and exhaust all residual compressed air in the system.
3. Before machinery/equipment is restarted, take measures to prevent shooting-out of cylinder piston rod, etc.

4. Contact SMC if the product is to be used in any of the following conditions:

1. Conditions and environments beyond the given specifications, or if product is used outdoors.
2. Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverages, recreation equipment, emergency stop circuits, clutch and brake circuits in press applications, or safety equipment.
3. An application which has the possibility of having negative effects on people, property, or animals, requiring special safety analysis.

Common Precautions

Be sure to read before handling.
For detailed precautions on every series, refer to main text.

Selection

⚠ Warning

1. Confirm the specifications.

Products represented in this catalog are designed for use in compressed air appllications only (including vacuum), unless otherwise indicated.
Do not use the product outside their design parameters.
Please contact SMC when using the products in applications other than compressed air (including vacuum).

Mounting

⚠ Warning

1. Instruction manual

Install the products and operate them only after reading the instruction manual carefully and understanding its contents. Also keep the manual where it can be referred to as necessary.

2. Securing the space for maintenance

When installing the products, please allow access for maintenance.

3. Tightening torque

When installing the products, please follow the listed torque specifications.

Piping

⚠ Caution

1. Before piping

Make sure that all debris, cutting oil, dust, etc, are removed from the piping.

2. Wrapping of pipe tape

When screwing piping or fittings into ports, ensure that chips from the pipe threads or sealing material do not get inside the piping. Also, when the pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.

Air Supply

⚠ Warning

1. Operating fluid

Please consult with SMC when using the product in applications other than compressed air (including vacuum).
Regarding products for general fluid, please ask SMC about applicable fluids.

2. Install an air dryer, aftercooler, etc.

Excessive condensate in a compressed air system may cause valves and other pneumatic equipment to malfunction.
Installation of an air dryer, after cooler etc. is recommended.

3. Drain flushing

If condensate in the drain bowl is not emptied on a regular basis, the bowl will over flow and allow the condensate to enter the compressed air lines.
If the drain bowl is difficult to check and remove, it is recommended that a drain bowl with the auto-drain option be installed.
For compressed air quality, refer to “Air Preparation Equipment” catalog.

4. Use clean air

If the compressed air supply is contaminated with chemicals, cynthetic materials, corrosive gas, etc., it may lead to break down or malfunction.

Operating Environment

⚠ Warning

1. Do not use in environments where the product is directly exposed to corrosive gases, chemicals, salt water, water or steam.

2. Do not expose the product to direct sunlight for an extended period of time.

3. Do not use in a place subject to heavy vibrations and/or shocks.

4. Do not mount the product in locations where it is exposed to radiant heat.

Maintenance

⚠ Warning

1. Maintenance procedures are outlined in the operation manual.

Not following proper procedures could cause the product to malfunction and could lead to damage to the equipment or machine.

2. Maintenance work

If handled improperly, compressed air can be dangerous.
Assembly, handling and repair of pneumatic systems should be performed by qualified personnel only.

3. Drain flushing

Remove drainage from air filters regularly. (Refer to the specifications.)

4. Shut-down before maintenance

Before attempting any kind of maintenance make sure the supply pressure is shut of and all residual air pressure is released from the system to be worked on.

5. Start-up after maintenance and inspection

Apply operating pressure and power to the equipment and check for proper operation and possible air leaks. If operation is abnormal, please verify product set-up parameters.

6. Do not make any modifications to be product.

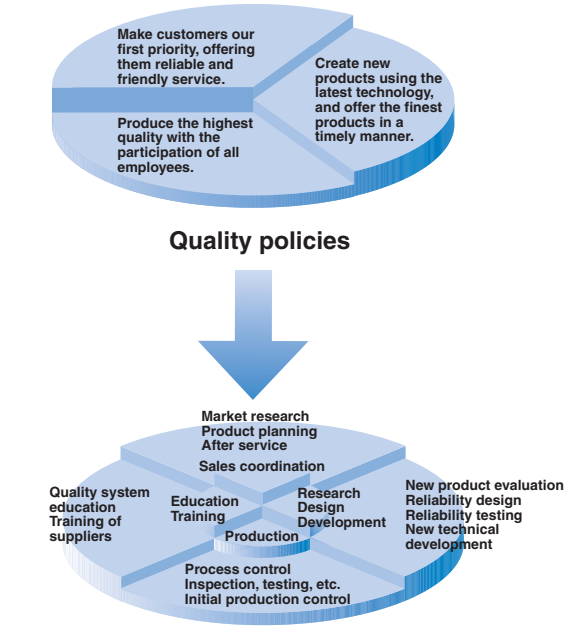
Do not take the product apart.

Quality Assurance Information (ISO 9001, ISO 14001)

Reliable quality of products in the global market

To enable our customers throughout the world to use our products with even greater confidence, SMC has obtained certification for international standards “ISO 9001” and “ISO 14001”, and created a complete structure for quality assurance and environmental controls. SMC products pursue to meet its customers’ expectations while also considering company’s contribution in society.

SMC’s quality control system



Quality management system

ISO 9001

This is an international standard for quality control and quality assurance. SMC has obtained a large number of certifications in Japan and overseas, providing assurance to our customers throughout the world.



Environmental management system

ISO 14001

This is an international standard related to environmental management systems and environmental inspections. While promoting environmentally friendly automation technology, SMC is also making diligent efforts to preserve the environment.



SMC Product Conforming to Inter

SMC products complying with EN/ISO, CSA/UL standards are supporting

CE Mark

The CE mark indicates that machines and components meet essential requirements of all the EC Directives applied.
It has been obligatory to apply CE marks indicating conformity with EC Directives when machines and components are exported to the member Nations of the EU.
Once “A manufacturer himself” declares a product to be safe by means of CE marking (declaration of conformity by manufacturer), free distribution inside the member Nations of the EU is permissible.

■ CE Mark

SMC provides CE marking to products to which EMC and Low Voltage Directives have been applied, in accordance with CETOP (European hydraulics and pneumatics committee) guide lines.

■ As of February 1998, the following 18 countries will be obliged to conform to CE mark legislation

Iceland, Ireland, United Kingdom, Italy, Austria, Netherlands, Greece, Liechtenstein, Sweden, Spain, Denmark, Germany, Norway, Finland, France, Belgium, Portugal, Luxembourg

■ EC Directives and Pneumatic Components

• Machinery Directive

The Machinery Directive contains essential health and safety requirements for machinery, as applied to industrial machines e.g. machine tools, injection molding machines and automatic machines. Pneumatic equipment is not specified in Machinery Directive. However, the use of SMC products that are certified as conforming to EN Standards, allows customers to simplify preparation work of the Technical Construction File required for a Declaration of Conformity.

• Electromagnetic Compatibility (EMC) Directive

The EMC Directive specifies electromagnetic compatibility. Equipment which may generate electromagnetic interference or whose function may be compromised by electromagnetic interference is required to be immune to electromagnetic affects (EMS/immunity) without emitting excessive electromagnetic affects (EMI/emission).

• Low Voltage Directive

This directive is applied to products, which operate above 50 VAC to 1000 VAC and 75 VDC to 1500 VDC operating voltage, and require electrical safety measures to be introduced.

• Simple Pressure Vessels Directive

This directive is applied to welded vessels whose maximum operating pressure (PS) and volume of vessel (V) exceed 50 bar/L. Such vessels require EC type examination and then CE marking.

national Standards

you to comply with EC directives and CSA/UL standards.

Mark of compliance for CSA/UL

Mark of compliance for CSA

NRTL /C

■ CSA Standards & UL Standards

UL and CSA standards have been applied in North America (U.S.A. and Canada) symbolizing safety of electric products, and are defined to mainly prevent danger from electric shock or fire, resulting from trouble with electric products. Both UL and CSA standards are acknowledged in North America as the first class certifying body. They have a long experience and ability for issuing product safety certificate. Products approved by CSA or UL standards are accepted in most states and governments beyond question.
Since CSA is a test certifying body as the National Recognized Testing Laboratory (NRTL) within the jurisdiction of Occupational Safety and Health Administration (OSHA), SMC was tested for compliance with CSA Standards and UL Standards at the same time and was approved for compliance with the two Standards. The above CSA NRTL/C logo is described on a product label in order to indicate that the product is approved by CSA and UL Standards.

■ TSSA (MCCR) Registration Products

TSSA is the regulation in Ontario State, Canada. The products that the operating pressure is more than 5 psi (0.03 MPa) and the piping size is bigger than 1 inch. fall into the scope of TSSA regulation.

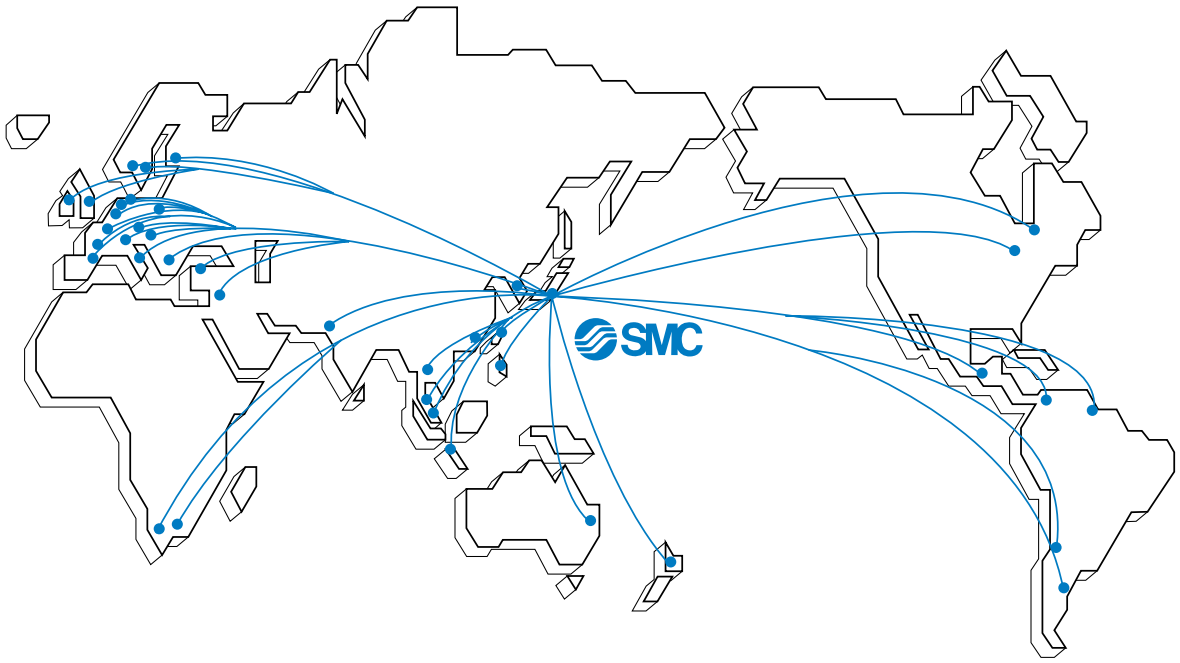
Products conforming to CE Standard

With CE symbol for simple visual recognition

In this catalog each accredited product series is indicated with a CE mark symbol. However, in some cases, every available models may not meet CE compliance. Please visit our web site for the latest selection of available models with CE mark.

http://www.smcworld.com

SMC's Global Service Network



America

U.S.A. **SMC Corporation of America**
3011 North Franklin Road Indianapolis, IN 46226, U.S.A.
TEL: 317-899-4440 FAX: 317-899-3102

CANADA **SMC Pneumatics (Canada) Ltd.**
6768 Financial Drive Mississauga, Ontario, L5N 7J6 Canada
TEL: 905-812-0400 FAX: 905-812-8686

MEXICO **SMC Corporation (Mexico), S.A. DE C.V.**
Carr. Silao-Trejo K.M. 2.5 S/N, Predio San Jose del Duranzo
C.P. 36100, Silao, Gto., Mexico
TEL: 472-72-2-55-00 FAX: 472-72-2-59-44/2-59-46

CHILE **SMC Pneumatics (Chile) S.A.**
Av. La Montaña 1,115 km. 16,5 P. Norte Parque
Industrial Valle Grande, Lampa Santiago, Chile
TEL: 02-270-8600 FAX: 02-270-8601

ARGENTINA **SMC Argentina S.A.**
Teodoro Garcia 3860 (1427) Buenos Aires, Argentina
TEL: 011-4555-5762 FAX: 011-4555-5762

BOLIVIA **SMC Pneumatics Bolivia S.R.L.**
Avenida Beni Numero 4665
Santa Cruz de la Sierra-Casilla de Correo 2281, Bolivia
TEL: 591-3-3428383 FAX: 591-3-3449900

VENEZUELA **SMC Neumatica Venezuela S.A.**
Apartado 40152, Avenida Nueva Granada, Edificio Wanlac,
Local 5, Caracas 1040-A, Venezuela
TEL: 2-632-1310 FAX: 2-632-3871

PERU (Distributor) **IMPECO Automatizacion Industrial S.A.**
AV. Canevaro 752, Lince, Lima, Peru
TEL: 1-471-6002 FAX: 1-471-0935

URUGUAY (Distributor) **BAKO S.A.**
Galicia 1650 esq. Gaboto C.P. 11200, Montevideo, Uruguay
TEL: 2-401-6603 FAX: 2-409-4306

BRAZIL **SMC Pneumaticos Do Brasil Ltda.**
Rua. Dra. Maria Fidelis, nr. 130, Jardim Piraporinha-Diadema-S.P.
CEP: 09950-350, Brasil
TEL: 11-4051-1177 FAX: 11-4071-6636

COLOMBIA (Distributor) **Airmatic Ltda.**
Calle 18 69-05 Apart. Aereo 081045 Santa Fe de Bogotá, Colombia
TEL: 1-424-9240 FAX: 1-424-9260

Europe

U.K. **SMC Pneumatics (U.K.) Ltd.**
Vincent Avenue, Crownhill, Milton Keynes, MK8 0AN, Backinghamshire, U.K.
TEL: 01908-563888 FAX: 01908-561185

GERMANY **SMC Pneumatik GmbH**
Boschring 13-15 D-63329 Egelsbach, Germany
TEL: 06103-4020 FAX: 06103-402139

ITALY **SMC Italia S.p.A.**
Via Garibaldi 62 I-20061 Carugate Milano, Italy
TEL: 02-9271365 FAX: 02-9271365

FRANCE **SMC Pneumatique S.A.**
1 Boulevard de Strasbourg, Parc Gustave Eiffel, Bussy Saint Georges, F-77600
Marne La Vallee Cedex 3 France
TEL: 01-64-76-10-00 FAX: 01-64-76-10-10

SWEDEN **SMC Pneumatics Sweden AB**
Ekhagsvägen 29-31, S-141 05 Huddinge, Sweden
TEL: 08-603-07-00 FAX: 08-603-07-10

SWITZERLAND **SMC Pneumatik AG**
Dorfstrasse 7, Postfach 117, CH-8484 Weisslingen, Switzerland
TEL: 052-396-3131 FAX: 052-396-3191

AUSTRIA **SMC Pneumatik GmbH (Austria)**
Girakstrasse 8, A-2100 Korneuburg, Austria
TEL: 0-2262-6228-0 FAX: 0-2262-62285

SPAIN **SMC España, S.A.**
Zuazobidea 14 Pol. Ind. Júndiz 01015 Vitoria, Spain
TEL: 945-184-100 FAX: 945-184-510

IRELAND **SMC Pneumatics (Ireland) Ltd.**
2002 Citywest Business Campus, Naas Road, Saggart, Co. Dublin, Ireland
TEL: 01-403-9000 FAX: 01-466-0385

NETHERLANDS (Associated company) **SMC Pneumatics BV**
De Ruyterkade 120, NL-1011 AB Amsterdam, Netherlands
TEL: 020-5318888 FAX: 020-5318880

GREECE (Distributor) **S.Parianopoulos S.A.**
7, Konstantinoupoleos Street 11855 Athens, Greece
TEL: 01-3426076 FAX: 01-3455578

DENMARK **SMC Pneumatik A/S**
Knudsminde 4 B DK-8300
Odder, Denmark
TEL: 70252900 FAX: 70252901

Europe

FINLAND **SMC Pneumatics Finland OY**
PL72, Tiistinniityntie 4, SF-02231 ESP00, Finland
TEL: 09-8595-80 FAX: 09-8595-8595

NORWAY **SMC Pneumatics Norway A/S**
Vollsveien 13C, Granfoss Næringspark N-1366 LYSAKER, Norway
TEL: 67-12-90-20 FAX: 67-12-90-21

BELGIUM (Distributor) **SMC Pneumatics N.V./S.A.**
Nijverheidsstraat 20 B-2160 Wommelgem Belguim
TEL: 03-355-1464 FAX: 03-355-1466

POLAND **SMC Industrial Automation Polska Sp.z.o.o.**
ul. Konstruktorska 11A, PL-02-673 Warszawa, Poland
TEL: 022-548-5085 FAX: 022-548-5087

TURKEY (Distributor) **Entek Pnömatik San.ve Tic. Ltd. Sti**
Perpa Tic. Merkezi Kat:11 No.1625 80270 Okmeydani Istanbul, Türkiye
TEL: 0212-221-1512 FAX: 0212-221-1519

RUSSIA **SMC Pneumatik LLC.**
36/40 Sredny prospect V.O. St. Petersburg 199004, Russia
TEL: 812-118-5445 FAX: 812-118-5449

CZECH **SMC Industrial Automation CZ s.r.o.**
Hudcova 78a, CZ-61200 Brno, Czech Republic
TEL: 05-4121-8034 FAX: 05-4121-8034

HUNGARY **SMC Hungary Ipari Automatizálási kft.**
Budafoki ut 107-113 1117 Budapest
TEL: 01-371-1343 FAX: 01-371-1344

ROMANIA **SMC Romania S.r.l.**
Str. Frunzei, Nr. 29, Sector 2, Bucharest, Romania
TEL: 01-3205111 FAX: 01-3261489

SLOVAKIA **SMC Priemyselná automatizáciá, s.r.o**
Nova 3, SK-83103 Bratislava
TEL: 02-4445-6725 FAX: 02-4445-6028

SLOVENIA **SMC Industrijska Avtomatilca d.o.o.**
Grajski trg 15, SLO- 8360 Zuzemberk, Slovenia
TEL: 07388-5240 FAX: 07388-5249

LATVIA **SMC Pneumatics Latvia SIA**
Šmerļa ielā 1-705, Rīga LV-1006
TEL: 777 94 74 FAX: 777 94 75

SOUTH AFRICA (Distributor) **Hyflo Southern Africa (Pty.) Ltd.**
P.O.Box 240 Paardeneiland 7420 South Africa
TEL: 021-511-7021 FAX: 021-511-4456

EGYPT (Distributor) **Saadani Trading & Ind. Services**
15 Sebaai Street, Miami 21411 Alexandria, Egypt
TEL: 3-548-50-34 FAX: 3-548-50-34

Oceania/Asia

AUSTRALIA **SMC Pneumatics (Australia) Pty.Ltd.**
14-18 Hudson Avenue Castle Hill NSW 2154, Australia
TEL: 02-9354-8222 FAX: 02-9894-5719

NEW ZEALAND **SMC Pneumatics (New Zealand) Ltd.**
8C Sylvia Park Road Mt.Wellington Auckland, New Zealand
TEL: 09-573-7007 FAX: 09-573-7002

TAIWAN **SMC Pneumatics (Taiwan) Co.,Ltd.**
17, Lane 205, Nansan Rd., Sec.2, Luzhu-Hsiang, Taoyuan-Hsien, TAIWAN
TEL: 03-322-3443 FAX: 03-322-3387

HONG KONG **SMC Pneumatics (Hong Kong) Ltd.**
29/F, Clifford Centre, 778-784 Cheung, Sha Wan Road, Lai Chi Kok, Kowloon, Hong Kong
TEL: 2744-0121 FAX: 2785-1314

SINGAPORE **SMC Pneumatics (S.E.A.) Pte. Ltd.**
89 Tuas Avenue 1, Jurong Singapore 639520
TEL: 6861-0888 FAX: 6861-1889

PHILIPPINES **SHOKETSU SMC Corporation**
Unit 201 Common Goal Tower, Madrigal Business Park,
Ayala Alabang Muntinlupa, Philippines
TEL: 02-8090565 FAX: 02-8090586

MALAYSIA **SMC Pneumatics (S.E.A.) Sdn. Bhd.**
Lot 36 Jalan Delima1/1, Subang Hi-Tech Industrial Park, Batu 3 40000 Shah Alam Selangor, Malaysia
TEL: 03-56350590 FAX: 03-56350602

SOUTH KOREA **SMC Pneumatics Korea Co., Ltd.**
Woolim e-BIZ Center (Room 1008), 170-5, Guro-Dong, Guro-Gu,
Seoul, 152-050, South Korea
TEL: 02-3219-0700 FAX: 02-3219-0702

CHINA **SMC (China) Co., Ltd.**
7 Wan Yuan St. Beijing Economic & Technological Development Zone 100176, China
TEL: 010-67882111 FAX: 010-67881837

THAILAND **SMC Thailand Ltd.**
134/6 Moo 5, Tiwanon Road, Bangkadi, Amphur Muang, Patumthani 12000, Thailand
TEL: 02-963-7099 FAX: 02-501-2937

INDIA **SMC Pneumatics (India) Pvt. Ltd.**
D-107 to 112, Phase-2, Extension, Noida, Dist. Gautaim Budh Nagar,
U.P. 201 305, India
TEL: (0120)-4568730 FAX: 0120-4568933

INDONESIA (Distributor) **P.T. Riyadi Putera Makmur**
Jalan Hayam Wuruk Komplek Glodok Jaya No. 27-28 Jakarta 11180 Indonesia
TEL: 021-625 5548 FAX: 021-625 5888

PAKISTAN (Distributor) **Jubilee Corporation**
First Floor Mercantile Centre, Newton Road Near Boulton Market P.O. Box 6165
Karachi 74000 Pakistan
TEL: 021-243-9070/8449 FAX: 021-241-4589

ISRAEL (Distributor) **Baccara Automation Control**
Kvutzat Geva 18915 Israel
TEL: 04-653-5960 FAX: 04-653-1445

SAUDI ARABIA (Distributor) **Assaggaff Trading Est.**
P.O. Box 3385 Al-Amir Majed Street, Jeddah-21471, Saudi Arabia
TEL: 02-6761574 FAX: 02-6708173